

Contents of Volume 15

Number 1

- 1 Gas-phase Axial Dispersion in a Spray Tower B. J. VINCI, B. J. WATTEN & M. B. TIMMONS (USA)
- Voluntary Fish Transport in Land-based Fish Farms
 O. I. LEKANG, S. O. FJÆRA & J. M. THOMASSEN (Norway)

World Aquaculture '94

- 27 Combination of a Bead Filter and Rotating Biological Contactor in a Recirculating Fish Culture System A. A. delos REYES, JR & T. B. LAWSON (USA)
- 41 Conceptual Design of a Sustainable Pond-based Shrimp Culture System P. A. SANDIFER & J. S. HOPKINS (USA)
- Technical and Economical Feasibility of On-farm Fish Feed Production Using Fishmeal Analogs K. W. TUDOR, R. R. ROSATI, P. D. O'ROURKE, Y. V. WU, D. SESSA & P. BROWN (USA)
- 67 Nitrification in Three-stage and Single-stage Floating Bead Biofilters in a Laboratoryscale Recirculating Aquaculture System L. L. HARGROVE, P. W. WESTERMAN & T. M. LOSORDO (USA)

Number 2

- 81 Performance of Hawaii-type Automated Fish Feed Dispenser B. C. MAL (India)
- 91 Modelling pH and Carbon Dioxide in Single-pass Seawater Aquaculture Systems S. SANNI & O. I. FORSBERG (Norway)
- 111 The Evolution of the Grass Prawn (*Penaeus mondon*) Hatchery Industry in Taiwan I. CHIU LIAO & YEW-HU (Taiwan)
- 133 Bioencapsulation of Chemotherapeutics in *Artemia* as a Means of Prevention and Treatment of Infectious Diseases of Marine Fish Fry M. TOURAKI, S. MOURELATOS, G. KARAMANLIDOU, S. KALAITZOPOULOU & C. KASTRITSIS (Greece)

Short Communication

149 Studies of Feeding Frequency for Atlantic Salmon (Salmo salar)
J. M. THOMASSEN & S. O. FJÆRA (Norway)

Number 3

- 159 Effects of Surface Orientation and Slurry Coating on Settlement of Sydney Rock, Saccostrea commercialis, Oysters on PVC Slats in Hatchery J. E. HOLLIDAY (Australia)
- Improved Use of the Fluidized Bed Dryer for Artemia Cysts T. BOSTEELS, W. TACKAERT, G. VAN STAPPEN & P. SORGELOOS (Belgium)
- 181 Blue Tilapia (*Oreochromis aureus*) Growth Rate in Relation to Dissolved Oxygen Concentration Under Recirculated Water Conditions S. E. PAPOUTSOGLOU & G. TZIHA (Greece)
- 193 Comparison of Probit Analysis versus Arcsine Square Root Transformation on LC₅₀ Estimation W.-M. RAY, Y.-H. CHIEN & C.-H. CHIEN (Taiwan)

Short Communications

- 209 Automatic Air-pressure Control in Systems for Intensive Breeding of Aquatic Animals A. PRILUTZKY, V. BIRKAN & S. APPELBAUM (Israel)
- 215 Locomotive Activity of Shrimp in Confinement M. A. PORTA, E. RUBIO, J. CERVANTES & J. L. FERNÁNDEZ (Mexico)
- 225 Guide for Authors

Number 4

- 233 Growth and Production of Bullfrog Rana catesbeiana Shaw, 1802, at Three Stocking Densities in a Vertical Intensive Culture System M. RODRIGUEZ-SERNA, A. FLORES-NAVA, M. A. OLVERA-NOVOA & C. CARMONA-OSALDE (Mexico)
- 243 Fish Simulation Culture Model (FIS-C): A Bioenergetics Based Model for Aquacultural Wasteload Application
 M. E. McDONALD, C. A. TIKKANEN, R. P. AXLER, C. P. LARSEN & G. HOST (USA)
- 261 In situ Measurement of Sediment Oxygen Demand in Catfish Ponds C. R. BERTHELSON, T. P. CATHCART & J. W. POTE (USA)
- 273 Economic Implications of Treating Effluents From Catfish Production P.-J. KOUKA & C. R. ENGLE (USA)
- 291 Illumination in First Feeding Tanks for Marine Fish Larvae K. NAAS, I. HUSE (Norway) & J. IGLESIAS (Spain)
- An Application of Automated Feature Extraction and Geometric Morphometrics: Temperature-related Changes in Body Form of *Cyprinus carpio* Juveniles A. LOY, E. CICCOTTI, L. FERRUCCI & S. CATAUDELLA (Italy)

Number 5

313 The Integrated Culture of Seaweed, Abalone, Fish and Clams in Modular Intensive Land-based Systems: I. Proportions of Size and Projected Revenues M. SHPIGEL & A. NEORI (Israel)

505

- 327 The Impact of Constant and Fluctuating Oxygen Concentrations and Two Water Consumption Rates on Post-smolt Atlantic Salmon Production Parameters O. I. FORSBERG & A. BERGHEIM (Norway)
- 349 Injuries and Serum Enzyme Activities of Fingerling Channel Catfish (*Ictalurus punctatus*) Harvested with a Turbine Pump J. M. GRIZZLE & L. L. LOVSHIN (USA)
- Modeling Gas Transfer and Biological Respiration in a Recirculating Aquaculture System
 L. G. WOOD, B. J. WATTEN, C. G. HAUGH, G. S. LIBEY & T. A. DILLAHA (USA)
- 381 Comparison of Three Mixing Devices in Earthen Culture Ponds of Four Different Surface Areas
 J. P. SZYPER (USA)

Volume 15 Number 6 1996

Review

397 A Review of the Environmental Effects and Alternative Production Strategies of Marine Aquaculture in Chile A. H. BUSCHMANN, D. A. LOPEZ & A. MEDINA (Chile)

Research Papers

- Monitoring the Behavior of Hypoxia-stressed Carassius auratus using Computer Vision
 D. ISRAELI & E. KIMMEL (Israel)
- Determination of Phosphorus Saturation Level in Relation to Clay Content in Formulated Pond Muds
 M. K. SHRESTHA & C. KWEI LIN (Thailand)
- The Development of a Remotely Operated Vehicle (ROV) for Aquaculture A. R. FROST, A. P. McMASTER, K. G. SAUNDERS & S. R. LEE (UK)
- Application of Aquariological Techniques to an Intensive Fish-rearing Process using Recycled, Warmed Water for the Production of Rainbow Trout Fry, *Oncorhynchus mykiss*P. FONTAINE, D. TERVER & A. GEORGES (France)

Short Communication

- 499 Tagging of Juvenile Lobsters (Homarus gammarus (L.)) with Visible Implant Fluorescent Elastomer Tags I. UGLEM, H. NŒSS, E. FARVESTVEIT & K. E. JØRSTAD (Norway)
- 503 Contents of Volume 15

